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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/910,208	07/20/2001	Jiro Hitomi	MM4454	4894
1109 75	590 10/05/2004		EXAMINER	
ANDERSON, KILL & OLICK, P.C.			HADDAD, MAHER M	
1251 AVENUE OF THE AMERICAS NEW YORK,, NY 10020-1182			ART UNIT	PAPER NUMBER
11211 10101,,	.,,		1644	
			DATE MAILED: 10/05/2004	4

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	09/910,208	HITOMI ET AL.				
Office Action Summary	Examiner	Art Unit				
	Maher M. Haddad	1644				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address						
Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a rep If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailir earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply oly within the statutory minimum of thirty (3 will apply and will expire SIX (6) MONTHS e. cause the application to become ABAN	be timely filed 0) days will be considered timely. 6 from the mailing date of this communication. DONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 16 A	August 2004.	$\mathcal{N}(\mathcal{N})$				
, = .	s action is non-final.					
3) Since this application is in condition for allowa						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) ⊠ Claim(s) <u>1-24</u> is/are pending in the application 4a) Of the above claim(s) is/are withdra 5) □ Claim(s) is/are allowed. 6) □ Claim(s) is/are rejected. 7) □ Claim(s) is/are objected to. 8) ⊠ Claim(s) <u>1-24</u> are subject to restriction and/or Application Papers	ewn from consideration. election requirement.					
9) The specification is objected to by the Examina 10) The drawing(s) filed on is/are: a) accomposed and applicant may not request that any objection to the Replacement drawing sheet(s) including the correct of the specific path or declaration is objected to by the Examination.	cepted or b) objected to by e drawing(s) be held in abeyance ction is required if the drawing(s)	. See 37 CFR 1.85(a). is objected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureat * See the attached detailed Office action for a list 	nts have been received. Its have been received in Appority documents have been re It (PCT Rule 17.2(a)).	lication No ceived in this National Stage				
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date	Paper No(s)/N	nmary (PTO-413) fail Date mal Patent Application (PTO-152)				

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Art Unit: 1644

DETAILED ACTION

1. The Art Unit location and the examiner of your application in the PTO has changed. To aid in correlating any papers for this application, all further correspondence regarding this application should be directed to Maher Haddad, Art Unit 1644, Technology Center 1600.

2. Sequence compliance: This application contains sequence disclosures that are encompassed by the definitions for nucleotide and/or amino acid sequences set forth in 37 CFR 1.821(a)(1) and (a)(2). However, this application fails to comply with the requirements of 37 CFR 1.821 through 1.825 for the reason(s) set forth on the attached Notice To Comply With Requirements For Patent Applications Containing Nucleotide Sequence.

Pages 51-56 discloses 18 sequences, however the sequence listing submitted on 8/19/02 contain only two sequences SEQ ID NO: 1 and 2. Applicant response submitted 8/19/03 to the letter sent on 8/7/2002 is incomplete because it provides only two SEQ ID NOs rather than 18 SEQ ID NOs.

Applicant is reminded of the sequence rules which require a submission for all sequences of 10 or more nucleotides or 4 or more amino acids (see 37 CFR 1.821-1.825) and is also requested to carefully review the submitted specification for any and all sequences which require compliance with the rules.

- 2. It is noted that SEQ ID NO: 1 or 12 are cDNA which are limited to their nucleic acid components. For the examination purposes, claims that recite "the amino acid sequence listed in SEQ ID NO: 1 or 12" are considered to read as "the amino acid sequence encoded by SEQ IDNO:1 or 12".
- 3. The previous Restriction Requirement mailed on 4/18/04 is hereby vacated. The new Restriction Requirement is set forth below. Examiner apologized for any inconveniences.
- 4. Restriction to one of the following inventions is required under 35 U.S.C. § 121:
 - I. Claims 1-4, drawn to calcium-binding protein comprising an amino acid sequence which is substantially identical to the amino acid sequence encoded by SEQ ID NO: 1 or 12, peptide and a fusion protein thereof; classified in Class 530, subclasses 395, 837, and 866.
 - II. Claims 5-15 and 17, drawn to DNA of SEQ ID NO: 1 or 12, vector, recombinant host cells and a method for producing a protein, classified in Class 536, subclass 23.5; Class 435, subclasses 69.1, 455, 252.3, and 320.1.

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III. Claim 16, drawn a method for producing a calcium-binding protein by isolating the protein from bovine amniotic fluid or bovine tissue or a human tissue, classified in Class 530, subclass 412.

- IV. Claims 18-23, drawn to an antibody with binding affinity to a protein encoded by SEQ ID NO: 1 or 12 and a method for producing; classified in Class 530, subclass 387.3, and 391.1; Class 424, subclass 133.1; Class 435, subclass 810.
- V. Claims 24, drawn to an assay method for a calcium-binding protein, classified in Class 435, subclass 7.1.
- 4. Groups I-II and IV are different products. Nucleic acids, polypeptides, and antibodies to the polypeptides differ with respect to their structures and physicochemical properties; therefore each product is patentably distinct.
- 5. Groups IV/V are related as product and process of using. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product (MPEP § 806.05(h)). In the instant case the antibody of Group III can be used for affinity purification, in addition to the assay recited.
- 6. These inventions are distinct for the reasons given above. In addition, they have acquired a separate status in the art as shown by different classification and/or recognized divergent subject matter. Further, even though in some cases the classification is shared, a different field of search would be required based upon the structurally distinct products recited and the various methods of use comprising distinct method steps. Therefore restriction for examination purposes as indicated is proper. Further, a prior art search also requires a literature search. It is an undue burden for the examiner to search more than one invention.

Species Election

- 7. Irrespective of whichever group applicant may elect, applicant is further required under 35 US 121 (1) to elect a single disclosed species to which claims would be restricted if no generic claim is finally held to be allowable and (2) to list all claims readable thereon including those subsequently added.
 - A. If Group I-V is elected, applicant is required to elect a single specific calciumbinding protein such as SEQ ID NO: 1 (Bovine) or SEQ ID NO: 12 (human).

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These are distinct species because their structures and modes of action are different which, in turn, address different therapeutic endpoints.

Applicant is required under 35 U.S.C. § 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable.

8. Applicant is advised that a response to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 C.F.R. § 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. M.P.E.P. § 809.02(a).

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. § 103 of the other invention.

- 9. Applicant is advised that the response to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed.
- 10. The examiner has required restriction between product and process claims. Where applicant elects claims directed to the product, and a product claim is subsequently found allowable, withdrawn process claims that depend from or otherwise include all the limitations of the allowable product claim will be rejoined in accordance with the provisions of MPEP § 821.04. Process claims that depend from or otherwise include all the limitations of the patentable product will be entered as a matter of right if the amendment is presented prior to final rejection or allowance, whichever is earlier. Amendments submitted after final rejection are governed by 37 CFR 1.116; amendments submitted after allowance are governed by 37 CFR 1.312.

In the event of rejoinder, the requirement for restriction between the product claims and the rejoined process claims will be withdrawn, and the rejoined process claims will be fully examined for patentability in accordance with 37 CFR 1.104. Thus, to be allowable, the

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rejoined claims must meet all criteria for patentability including the requirements of 35 U.S.C. 101, 102, 103, and 112. Until an elected product claim is found allowable, an otherwise proper restriction requirement between product claims and process claims may be maintained. Withdrawn process claims that are not commensurate in scope with an allowed product claim will not be rejoined. See "Guidance on Treatment of Product and Process Claims in light of *In re Ochiai, In re Brouwer* and 35 U.S.C. § 103(b)," 1184 O.G. 86 (March 26, 1996). Additionally, in order to retain the right to rejoinder in accordance with the above policy, Applicant is advised that the process claims should be amended during prosecution either to maintain dependency on the product claims or to otherwise include the limitations of the product claims. **Failure to do so may result in a loss of the right to rejoinder.** Further, note that the prohibition against double patenting rejections of 35 U.S.C. 121 does not apply where the restriction requirement is withdrawn by the examiner before the patent issues. See MPEP § 804.01.

- 12. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).
- 11. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Maher Haddad whose telephone number is (571) 272-0845. The examiner can normally be reached Monday through Friday from 7:30 am to 4:00 pm. A message may be left on the examiner's voice mail service. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Christina Chan can be reached on (571) 272-0841. The fax number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Maher Haddad, Ph.D. Patent Examiner Technology Center 1600 September 28, 2004

CHAISTING CHAIN
CUPERVISORY PATENT EXAMINER
CECHNOLOGY CENTER 1600